

NEWS 13 JUL 14 FSTA enhanced with Japanese patents
 NEWS 14 JUL 19 Coverage of Research Disclosure reinstated in DWPI
 NEWS 15 AUG 09 INSPEC enhanced with 1898-1968 archive
 NEWS 16 AUG 28 ADISCTI Reloaded and Enhanced
 NEWS 17 AUG 30 CA(SM)/CAplus(SM) Austrian patent law changes
 NEWS 18 SEP 11 CA/CAplus enhanced with more pre-1907 records
 NEWS 19 SEP 21 CA/CAplus fields enhanced with simultaneous left and right truncation

NEWS EXPRESS JUNE 30 CURRENT WINDOWS VERSION IS V8.01b, CURRENT
 MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
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FULL ESTIMATED COST	0.21	0.21

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=> saha or trichostatin

1314 SAHA

1687 TRICHOSTATIN

10 TRICHOSTATINS
1691 TRICHOSTATIN
(TRICHOSTATIN OR TRICHOSTATINS)
L1 2922 SAHA OR TRICHOSTATIN

=> leukotriene or lipoxxygenase
13967 LEUKOTRIENE
7799 LEUKOTRIENES
16083 LEUKOTRIENE
(LEUKOTRIENE OR LEUKOTRIENES)
17010 LIPOXYGENASE
1484 LIPOXYGENASES
17245 LIPOXYGENASE
(LIPOXYGENASE OR LIPOXYGENASES)
L2 29136 LEUKOTRIENE OR LIPOXYGENASE

=> 11(1)12
L3 5 L1(L)L2

=> d 13 1-5 ti

L3 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
TI Responses to a histone deacetylase inhibitor, trichostatin A, in activated hepatic stellate cells of rats. Proteomic analysis for expression of altered target proteins

L3 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
TI Short-chain fatty acids alter tight junction permeability in intestinal monolayer cells via lipoxxygenase activation

L3 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
TI Effect of eicosanoid formation on tight junction permeability changes in Caco-2 cells induced by short-chain fatty acids

L3 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
TI Trichostatin A and structurally related histone deacetylase inhibitors induce 5-lipoxxygenase promoter activity

L3 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
TI Expression of 15-lipoxxygenase-1 is regulated by histone acetylation in human colorectal carcinoma

=> d 13 4-5 ti fbib abs

L3 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
TI Trichostatin A and structurally related histone deacetylase inhibitors induce 5-lipoxxygenase promoter activity
AN 2003:466199 CAPLUS
DN 139:285631
TI Trichostatin A and structurally related histone deacetylase inhibitors induce 5-lipoxxygenase promoter activity
AU Klan, Niko; Seuter, Sabine; Schnur, Nicole; Jung, Manfred; Steinhilber, Dieter
CS Institute of Pharmaceutical Chemistry, University of Frankfurt, Frankfurt/Main, D-60439, Germany
SO Biological Chemistry (2003), 384(5), 777-785
CODEN: BICHF3; ISSN: 1431-6730
PB Walter de Gruyter GmbH & Co. KG
DT Journal
LA English
AB 5-Lipoxxygenase (5-LO) mRNA expression in Mono Mac 6 cells is induced by the histone deacetylase inhibitor trichostatin A

(TsA). In order to study the effects of TsA and several structurally related compds. such as MD85, D237 and M232 on 5-LO promoter activity, we have analyzed the response of a 5-lipoxygenase (5-LO) promoter luciferase reporter gene construct to histone deacetylase inhibitors in transiently transfected Mono Mac 6 and HeLa cells. We show that the activity of 5-LO promoter constructs comprising the sequences -778 to +53 and of several successive deletions of the 5-LO promoter is strongly increased upon TsA treatment. The data suggest a significant involvement of histone deacetylases in the regulation of 5-LO gene transcription. The basal activity of the 5-LO promoter strongly depends on the presence of multiple Spl-binding sites (GC-boxes), five of which are positioned in tandem. Deletion of the five tandemized GC-boxes in the 5-LO reporter gene construct revealed that the induction of 5-LO promoter activity by TsA seems to be independent of these GC-boxes. Methylation of 5-LO reporter gene constructs by M.HpaII reduced 5-LO promoter activity but did not prevent induction of promoter activity by TsA, although the activated reporter gene activities were lower compared to the unmethylated plasmid, indicating the dominance of methylation over TsA-sensitive histone deacetylation in silencing of the 5-LO gene. The structure-activity data obtained for histone deacetylase inhibitors suggest that this assay system might serve as a cellular screening tool for the development of HDAC inhibitors.

RE.CNT 42 THERE ARE 42 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
TI Expression of 15-lipoxygenase-1 is regulated by histone acetylation in human colorectal carcinoma
AN 2001:90389 CAPLUS
DN 134:264267
TI Expression of 15-lipoxygenase-1 is regulated by histone acetylation in human colorectal carcinoma
AU Kamitani, Hideki; Taniura, Seijiro; Ikawa, Hiroshi; Watanabe, Takashi; Kelavkar, Uddhav P.; Eling, Thomas E.
CS Laboratory of Molecular Carcinogenesis, National Institutes of Environmental Health Sciences, Research Triangle Park, NC, 27709, USA
SO Carcinogenesis (2001), 22(1), 187-191
 CODEN: CRNGDP; ISSN: 0143-3334
PB Oxford University Press
DT Journal
LA English
AB 15-Lipoxygenase-1 (15-LO-1) is expressed at higher levels in human colorectal tumors compared with normal tissue. 15-LO-1 is expressed in cultured human colorectal cells, but only after treatment with sodium butyrate (NaBT), which also stimulates apoptosis and cell differentiation. The authors examined the regulation of 15-LO-1 in human tissue and the colorectal carcinoma cell lines Caco-2 and SW-480 by treatment with histone deacetylase (HDAC) inhibitors: NaBT, trichostatin A (TSA), and HC toxin. Northern and western anal. showed that expression of 15-LO-1 was up-regulated by these HDAC inhibitors. Furthermore, HDAC inhibitors stimulated promoter activity of the 15-LO-1 gene .apprx.12-21-fold using the -331/-23 region of the 15-LO-1 promoter, as measured with a luciferase-15-LO-1 promoter-reporter system, suggesting that 15-LO-1 is regulated at the transcriptional level by HDAC inhibitors. Histone proteins in colorectal cells were acetylated after treatment with HDAC inhibitors. Histone acetylation was also measured in human colorectal tissue and a correlation was observed between increased histone acetylation and 15-LO-1 expression. Thus, regulation of 15-LO-1 expression in colorectal tissues appears to occur by a novel and new mechanism associated with histone acetylation. Moreover, these results suggest that 15-LO-1 is a marker that reflects histone acetylation in colorectal carcinoma.

RE.CNT 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> asthma or brochitis or COPD

32320 ASTHMA

21 ASTHMAS

32328 ASTHMA

(ASTHMA OR ASTHMAS)

4 BROCHITIS

2765 COPD

15 COPDS

2778 COPD

(COPD OR COPDS)

L4 34187 ASTHMA OR BROCHITIS OR COPD

=> d his

(FILE 'HOME' ENTERED AT 08:34:54 ON 22 SEP 2006)

FILE 'CAPLUS' ENTERED AT 08:35:21 ON 22 SEP 2006

L1 2922 SAHA OR TRICHOSTATIN

L2 29136 LEUKOTRIENE OR LIPOXYGENASE

L3 5 L1(L)L2

L4 34187 ASTHMA OR BROCHITIS OR COPD

=> l1(l)l4

L5 5 L1(L)L4

=> d l5 1-5 ti

L5 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN

TI Moraxella catarrhalis induces inflammatory response of bronchial epithelial cells via MAPK and NF- κ B activation and histone deacetylase activity reduction

L5 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN

TI NF- κ B and Activator Protein 1 Response Elements and the Role of Histone Modifications in IL-1 β -Induced TGF- β 1 Gene Transcription

L5 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN

TI Repression of Interleukin-5 Transcription by the Glucocorticoid Receptor Targets GATA3 Signaling and Involves Histone Deacetylase Recruitment

L5 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN

TI Trichostatin A attenuates airway inflammation in mouse asthma model

L5 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN

TI Theophylline restores histone deacetylase activity and steroid responses in COPD macrophages

=> d l5 4 ti fbib abs

L5 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN

TI Trichostatin A attenuates airway inflammation in mouse asthma model

AN 2005:164129 CAPLUS

DN 142:348684

TI Trichostatin A attenuates airway inflammation in mouse asthma model

AU Choi, J.-H.; Oh, S.-W.; Kang, M.-S.; Kwon, H. J.; Oh, G.-T.; Kim, D.-Y.

CS Department of Veterinary Pathology, College of Veterinary Medicine and

School of Agricultural Biotechnology, Seoul National University, Seoul, S. Korea

SO Clinical and Experimental Allergy (2005), 35(1), 89-96

CODEN: CLEAEN; ISSN: 0954-7894

PB Blackwell Publishing Ltd.

DT Journal

LA English

AB Background Histone deacetylase (HDAC) inhibition has been demonstrated to change the expression of a restricted set of cellular genes. T cells are essential in the pathogenesis of allergen-induced airway inflammation. It was recently reported that treatment with HDAC inhibitors induces a T cell-suppressive effect. Objective The purpose of this study was to determine whether treatment with trichostatin A (TSA), a representative HDAC inhibitor, would reduce allergen-induced airway inflammation in a mouse asthma model. Methods BALB/c mice were i.p. sensitized to ovalbumin (OVA) and challenged with an aerosol of OVA. TSA (1 mg/kg body weight) was injected i.p. every 2 days beginning on day 1. Mouse lungs were assayed immunohistochem. for HDAC1, a major HDAC subtype, and for infiltration of CD4+ cells. The effect of TSA on airway hyper-responsiveness (AHR) was determined, and the bronchoalveolar lavage fluid (BALF) of these mice was assayed for the number and types of inflammatory cells, and for the concns. of IL-4, IL-5, and IgE. Results HDAC1 was localized within most airway cells and infiltrating inflammatory cells of asthmatic lungs. Treatment with TSA significantly attenuated AHR, as well as the nos. of eosinophils and lymphocytes in BALF. TSA also reduced infiltration of CD4+ and inflammatory cells and mucus occlusions in lung tissue, and decreased the concns. of IL-4, IL-5, and IgE in BALF. Conclusion TSA attenuated the development of allergic airway inflammation by decreasing expression of the Th2 cytokines, IL-4 and IL-5, and IgE, which resulted from reduced T cell infiltration. Our results suggest that HDAC inhibition may attenuate the development of asthma by a T cell suppressive effect.

RE.CNT 39 THERE ARE 39 CITED REFERENCES AVAILABLE FOR THIS RECORD
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=> logoff hold

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
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SINCE FILE	TOTAL
ENTRY	SESSION
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EAST Search History

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L3	0	L2 same L1	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/09/22 07:24
L4	12769	hydroxam\$	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/09/22 07:24
L5	0	L2 same L4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/09/22 07:24
L6	753894	transport	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/09/22 07:24
L7	80787	(asthma or bronchitis or COPD or cystic adj fibrosis)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/09/22 07:24
L8	1648	hydroxyamide	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/09/22 07:24
L9	2	L7 near20 L8	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/09/22 07:24
L10	109	oxyamide	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/09/22 07:24
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L15	140735	lung	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/09/22 07:24
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EAST Search History

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L27	35	L25 and L26	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/09/22 07:24
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EAST Search History

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EAST Search History

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